~

	Application No.	Applicant(s)
Notice of Allowability	10/561,865	MITAMURA ET AL.
	Examiner	Art Unit
	Felisa C. Hiteshew	1722
	Felisa C. Hitesnew	1722
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the amendment filed</u>	on October 19,2006.	
2. \boxtimes The allowed claim(s) is/are $\underbrace{11,16,18,20,22,24,26,28}_{\text{L}}$ and 30).	
3. Acknowledgment is made of a claim for foreign priority ura) All b) Some* c) None of the:	nder 35 U.S.C. § 119(a)-(d) or (f).	
1. Certified copies of the priority documents have		
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •	
3. Copies of the certified copies of the priority do	cuments have been received in this r	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declarate	S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date		,
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawin he header according to 37 CFR 1.121(c	gs in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIAL IN FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s)	_	
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (Paper No./Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's Amendm	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance
	9. 🗌 Other	Allow Alloh Felisa C. Hiteshew Primary Examiner Art Unit: 1722

Art Unit: 1722

Allowable Subject Matter

- 1. Claims 12,16,18,20,22,24,26,28 and 30 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The most relevant prior art of reference was that of Sakurada, et al '646 B2. However, it does not teach nor fairly suggest singularly or in any combination thereof a method for producing a single crystal of which a whole plane in a radial direction is a defect-free region with pulling the single crystal form a raw material melt in a chamber by Czochralski method, wherein at least any one of a distance (L1) between a melt surface of the raw material melt and a heat insulating member provided in the chamber, a position of a heater heating the raw material melt, and a flow rate (F) of an inert-gas introduced into the chamber is changed in a direction of the crystal growth axis during pulling the single crystal so that a margin of a pulling rate that the single crystal of which the whole plane in a radial in a radial direction is a defect-free region can be pulled is always satisfies a relational formula "the margin of the pulling rate > 0.35 x exp(0.016 s a diameter of a straight body of the single crystal [mm] = 0.01"...

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felisa Hiteshew whose telephone number is (571) 272-1463. The examiner can normally be reached on Mondays through

Application/Control Number: 10/561,865

Art Unit: 1722

Thursday from 5:30 AM to 4:00 PM with Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta, can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-1463.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system. see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866- 217-9197 (toll-free).

Felisa Hiteshew

Primary Patent Examiner

Page 3

Art Unit 1722